

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

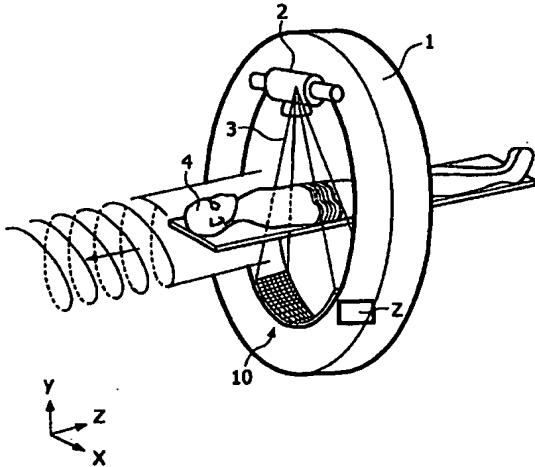
PCT

(10) International Publication Number
WO 2005/052635 A2

- (51) International Patent Classification⁷: G01T 1/20
(21) International Application Number: PCT/IB2004/052489
(22) International Filing Date: 19 November 2004 (19.11.2004)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data: 03104459.7 28 November 2003 (28.11.2003) EP
(71) Applicant (for DE only): PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH [DE/DE]; Stein-damm 94, 20099 Hamburg (DE).
(71) Applicant (for all designated States except DE, US): KONINKLIJKE PHILIPS ELECTRONICS N. V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
(72) Inventor; and
(75) Inventor/Applicant (for US only): VOGTMIEIER,
- (74) Agents: VOLMER, Georg et al.; Philips Intellectual Property &, Standards GmbH, Weisshausstr. 2, 52066 Aachen (DE).
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,

[Continued on next page]

(54) Title: DETECTOR ARRANGEMENT, ESPECIALLY FOR A COMPUTER TOMOGRAPH



WO 2005/052635 A2

(57) Abstract: A detector arrangement (10) for detecting and transferring detector signals to a processing unit is described. This detector arrangement is provided in particular for use in a computer tomograph for high-resolution detection of X-rays, the processing unit being in the form of a central processing unit or buffer memory (Z) on a rotatable portion of a gantry (1). To transfer the detector signals with the minimum number of contacts or plug-in connectors also in the case of a high-resolution detector arrangement (10), this comprises at least one detector module having a plurality of individual detector elements as well as an electrical unit having an electro-optical transducer for processing the signals of the detector elements and for generating optical detector module output signals.